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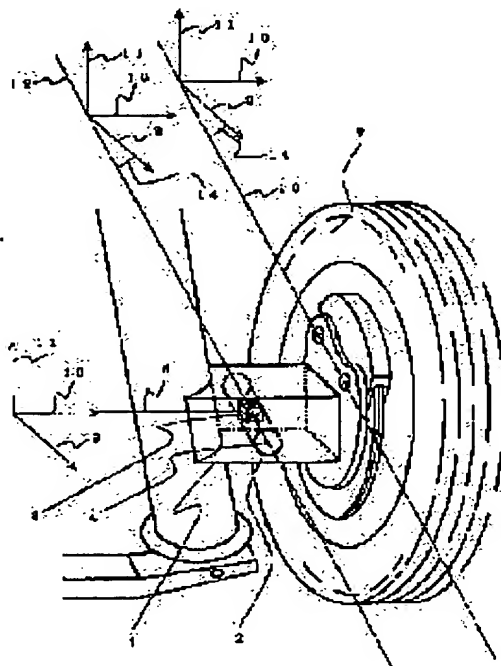
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(54) APPARATUS FOR MEASURING WORKING FORCE OF WHEEL**(57)Abstract:**

PURPOSE: To provide a measuring apparatus without the effect of cross talk by providing a hole in an axle or in the vicinity of the axle at a brake caliper angle or an angle aligned with the vicinity of the caliper angle, and embedding and fixing a stress sensor in this hole.

CONSTITUTION: A hole 2 is provided at the side surface of an axle 1 so that a central axis 12 intersects a stress central axial line 5 of the axle along the advancing direction 9 of a wheel 7 at a brake caliper angle 14 or an angle in the vicinity of the caliper. A stress detecting sensor 3 is inserted into the position of the hole 2 also at the stress central axial line 5 of the axle or in the vicinity of the axle. The stress detecting sensor 3 comprises a rectangular parallelepiped base body comprising plastic such as epoxy regine, metal, silicon material or the like and a metallic resistance strain gage, which is attached to the base body. The strain gage is assembled into a bridge, and shearing strain is sensed at the brake caliper angle or the angle aligned in the vicinity of the caliper angle at the proximity of the stress central axial line 5 of the axle. Therefore, the effect of cross talk is suppressed, and the vertical drag can be measured accurately.

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